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High Temperature Corrosion of the Structural Materials and Degradation of Coatings in Harsh Conditions

Guest Editors:

Prof. Dr. Nigel Simms

Centre for Thermal Energy
Systems and Materials, Cranfield
University, Cranfield, UK

Dr. Tomasz Dudziak

Łukasiewicz—Krakow Institute of
Technology, Kraków, Malopolska,
Poland

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Message from the Guest Editors

The problem of high temperature corrosion has been well known for years. There is no development of society without high temperature, as high temperature means better efficiency and higher performance; however, materials based on Fe, Ni, TiAl metal matrix fabricated in a standard way or by 3D technology possesses limitations. Therefore, it is extremely important to validate steels and alloys against high temperature applications. In order to prevent corrosion degradation and oxidation processes most frequently, protective coatings are needed to serve an extended lifetime for structural materials. I am inviting you to submit the very latest work on the subject, where high temperature corrosion steels alloy is a key subject of the research.

This Special Issue offers a timely and authoritative opportunity to present recent progress in the field of high temperature corrosion of the structural materials and degradation of coatings in harsh conditions. Furthermore, the Special Issue is expected to highlight exciting challenges and future applications of the new coating systems and 3D materials resistance against high temperature exposures in different atmospheres.



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Special issue



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Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

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Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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